Safety Instructions

This product has been manufactured to satisfy the international safety standards. Please read all of safety and operating instructions before operating the product and keep this manual for future reference.

MAINS SUPPLY

AC 90-250V~. 50/60Hz

Operate your product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. Disconnect the STB from the mains before you start any maintenance or installation procedures.

OVERLOADING

Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.

LIOUIDS

The product should not be exposed to any liquids such as dripping or splashing. No objects filled with liquids, such as vases, should be placed on the apparatus,

CLEANING

Before cleaning, disconnect the product from the wall outlet. Use a cloth lightly dampened with water (no solvents) to clean the exterior.

VENTILATION

The slots on top of the product must be left uncovered to allow proper airflow to the unit. Do not stand the product on soft furnishings or carpets. Do not expose the product to direct sunlight, place it near a heater. Do not stack electronic equipment on top of the product.

ATTACHMENTS

Do not use any attachment that is recommended by the manufacturer it may cause a hazard or damage the product.

CONNECTION TO THE SATELLITE DISH LNB

Disconnect the product from the mains before connecting or disconnecting the cable from the satellite dish. Failure to do so can damage the LNB.

CONNECTION TO THE TV

Disconnect the product from the mains before connecting or disconnecting the cable from the satellite dish. Failure to do so can damage the TV.

LOCATION

Place the product indoors in order not to expose to lightning, rain or sunlight. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifier) that product heat.

LIGHTNING, or NOT IN USE

Unplug the product from the wall outlet and disconnect the cable during a lightning storm or when unused for a long time.

SERVICING

Do not attempt service that this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazard. Refer all servicing to gualified service personnel.

"The mains plug is used as the disconnect device. Then disconnect device shall remain readily operable"

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Before You Begin

General Features

- · Accurate, Brilliant Friendly OSD with Full Function
- MPEG-2 (MP@ML), MPEG-2 (MP@HL), MPEG4 AVC/H.264, HP@L4
- 2 SCARTS for TV, VCR (optional)
- 16 Bit Colors Graphic User Interface
- Multi-language Menu
- 13-digit VFD (Time clock in Stand-by mode)
- · OSD Teletext Supported
- · EPG (Electronic Program Guide) for On-screen Channel Information
- · Installation by Easy Setup Guide
- 10,000 Channels
- · User-friendly Data Editing Function
- Favorite Channel and Parental Lock Function
- RS232C Port for Additional Information Service and Upgrading System Software
- S/PDIF OUT Optical and Coaxial
- HDMI
- SVIDEO OUT
- PVR Ready
- Time-Shift
- Unicable
- Ethernet PortOptional)
- USB Port
- 2 Common Interface and 2 Smart card Reader
- · Blind scanning function

Accessories

- User's Manual
- Remote Control Unit
- Batteries
- · HDMI Cable (Optional)

Controls and Functions

Front Panel

 Power (⁽)) button Turns your receiver On/Off.

2 Arrow (◄/►) buttons

Adjusts the volume and moves the cursor left/right on the menu

3 Arrow (▲/▼) buttons

Changes channels or moves the cursor up/down on the menu.

4 MENU button

Displays the menu Exits from the current menu or goes to the previous menu

5 OK button Confirms selection

6 DISPLAY

Displays channel information Displays local time in Standby mode

Rear Panel



1 RF IN

It Connects to the Cable antenna for DTV signal.

2 LOOP

Loop out is an output port of the DISH INPUT signal.

3USB

Connects to the External HDD or USB storage with USB cable.

4 RS-232C

Connect to a PC. RS232 transfers data to the external computer.

6 e-SATA

Connects to the External HDD with SATA cable.

6 VIDEO OUT

Connects to video input jack on TV or any external Video system.

7 AUDIO OUT, LEFT / RIGHT

Connects to audio input jacks on TV or any external audio system.

8 Y Pb Pr OUT

Connects to video input jack on TV or any external Video system.

S-Video OUT

Connects to the TV with S-Video cable

S/PDIF OUT Optical & Coaxial

Connects to a digital audio component with optical cable.

Ethernet(Optional)

Connects to the Ethernet with Ethernet cable **P HDMI**

Connects to the TV with HDMI cable

SCART for VCR Connects to the VCR(AUX) with SCART cables.

SCART for TV

Connects to the TV with SCART cables.

Remote Control Unit

- Power (⁽⁾) button for TV & STB Turns your receiver & TV On/Off.
- 2 Numeric (0~9) buttons Controls the number entry and changes program channel directly.
- 3 Mode (治/戶) button Switches between TV and Radio channel list.
- Sleep () button Shows the time setting for the sleep-timer.
- **MoSAic** () button Displays multi picture section.
- G Arrow (◄/►) or OK buttons Adjusts the volume level or moves the cursor left or right on the menu.
 Arrow (▲/▼) or OK buttons Changes channels or moves the cursor up or down on the menu.
- Menu () button Displays the menu Exits from the current menu or goes to the previous menu.
- 8 Mute (1) button Mutes audio output.
- Shows Viewed Channel List.
- Audio ((Pp)) button
 Shows the Input Audio information.
- OK button Shows Channel list while watching TV or listening to the Radio.
- **(2) Guide (**◄ 𝑘) button Shows the TV program guide.
- **13 VOL +/-** buttons Adjusts the volume level.
- ② Zoom (④) button Zooms in the selected screen. The Zooming location changes by pressing direction buttons. (x2 → normal)

- (b) Text () button Changes to the teletext mode.
- INFO (*i*) button Displays program information in the screen.
- Back () button Goes to previous menu. The changed values are to be saved.
- BSAT (∅) button Shows satellite channel list.
- PR +/- buttons Changes channel up or down.
- Page (+/-) buttons Moves up or down pages on the menu and TV/Radio List.
- 2 FAV (♥) button
 - Go to the last channel you've watched in the Favorite Channel List 1.
 - And if pressed angina, you can see the last channel you've watched in the next Favorite Channel List2. Repeat pressing the button until no more Favorite Channel is found. Then it returns to the current channel.
- 22 REW button
 - Rewinds the recorded programs to x8.
- 23 Play button
 - Play the recorder programs Shows the recorded program in the media player.
- 29 FWD button

Fast forward the recorded program to x16.

- 25 Record button Starts to record programs.
- Stop button Stops to record the program and to play the program.
- Pause button Pauses and play the program.
- 23 F1 button Set the Video format.

F2 button Shows Media Player.

50 F3 button Starts Time shift function.

3 Additional function

1. Learning Method

- If there is no further action within 30 seconds in LEARN MODE, the remote control turns to normal operation mode switching LED off.
- TV Power key doesn't have Default key data.

The Learning Method

- Only the key of "TV Power"has Learning function.
- Toggle Learning (Continuous 2 codes should be learned in TV Power key)
- 1st Learned data is produced upon 1st press and then 2nd Learned data will be produced upon next pressing on the TV Power key.
- If you press [TV Power + OK] KEYs at the same time for 1.5 seconds, the remote goes into leaning mode. => Then LED ON will be "ON' for 30 seconds. If there is no further action, it will automatically turn back to normal mode after 30 seconds switching LED off.
- Press TV Power key one more time. LED blinks one time and then LED will be "ON".
- Press 1st SOURCE KEY (Power key of the original key)
- If it learns correctly, --- LED will be "ON"after blinking Two Times.
 - If it does not learn correctly, --- LED will be "ON" after blinking 5 Times
 - If there is no input Signal for 30 seconds, the remote will stay in learning mode after blinking 5 times.
 - If no further input signal for another 30 seconds, the remote will return to

normal operation mode. LED will be OFF.

- If you want to teach it again, then you need to press TV Power key. --- LED will stay "ON"after blinking one time.
- Now you learned one code from your original TV power key. Please press TV Power key one more time. --- LED will stay ON after blinking one time.
 => If the first TV Power code is learned correctly (after LED Blinking two times), 2nd code can be taught.
- Please press 2nd SOURCE KEY(Any numeric key from the original remote control. For example Number 1)
- If it learns correctly, --- LED will be "ON" after blinking Two Times. If it does not learn correctly, --- LED will be "ON" after blinking 5 Times
 If there is no input Signal for 30 seconds, the remote will stay in learning mode after blinking 5 times. If no further input signal for another 30 seconds, the remote will return to normal operation mode. LED will be OFF.
 If you want to teach it again, then you need to press TV Power key. --- LED will stay "ON" after blinking one time.
- If you press [TV Power + OK] Keys at the same time, it turns back to normal operation mode after LED blinking 3 times.

2. Low Battery Warning Function It is the fuction to check if the battery has LOW VOLTAGE

- ♦ If you press [STB Power] KEY at the level that IC's OPERATING VOLTAGE is as low as "2.2V ~ 2.3V", power code will be produced blinking LED 3 times.
- At that LOW VOLTAGE level, you can not go into LEARNING MODE.

Connections



Location of your receiver

- · Install your receiver in horizontal position
- Do not put any heavy stuff such as a TV on your receiver
- Do not install your receiver in the places as follows: Vibrating place, direct sunrays, Humid place, too high or low temperature, and no ventilated place.

Connecting your receiver with dish system

After installing your antenna system, connect the coaxial cable from the LNB of your antenna to "DISH INPUT" terminal marked at the rear panel of your receiver. All cable connectors should be finger-tightened; do not use any kind of wrench while tightening connectors. The cable should be 75 ohm impedance coaxial twisted at the end with an "F" type connector.

Connecting your analog receiver

To facilitate the user using analog receiver to view analog channels, this product has been provided with a loop through terminal marked as "Loop". Connect the coaxial cable from this terminal to the IF input terminal of your analog receiver. Now by keeping your receiver in standby, you will be able to tune and view analog channels from your analog receiver.

Connecting your receiver to TV

To connect your receiver with your television, you can use 4 different methods; via RCA cable, SCART cable, HDMI cable or YUV.

Connect the RF cable to the terminal marked "RF OUT" on the rear panel of your receiver and its other end to the TV RF input socket.

Connect the Video/Audio RCA cables from the Video OUT/AUDIO OUT (LEFT, RIGHT) on the rear of your receiver to the Video INPUT/AUDIO INPUT (LEFT, RIGHT) jacks on the TV. In the case of connecting your TV through SCART cable, connect the SCART connector marked TV to the respective SCART port on the TV. (depend on model)

Connect the HDMI cable to the terminal marked "HDMI" on the rear panel of your receiver and its other end to the TV HDMI input.

Connecting your receiver to VCR (depending on model)

To connect a VCR, your receiver has been provided with SCART at the rear marked "VCR". Using a SCART connector, the VCR can be connected to your receiver.

Connecting external audio/Hi-Fi system

To connect any external Audio Hi-Fi system, your receiver has been provided with two RCA connectors at the rear panel of your receiver, marked with AUDIO L and R respectively to connect the left and right Audio on the external audio/Hi-Fi system.

Connecting digital audio system

Connect a cable between S/PDIF OUT at the rear panel of your receiver and S/PDIF INPUT COAXIAL or OPTICAL on the Digital Audio System.

Initial Settings and Operations

Menu Information

A menu is a field of text shown on the TV screen. Selectable lines are generally activated (highlighted). No-activated lines cannot be selected. Most of menus show short information at the bottom of the screen.

This menu consists of 7 main menus:

- Installation
- Game
 Multimedia
- System SetupChannel Setup
- Conditional Access
- Parental Lock
- Conditional Access
- 1 Using the **Arrow** (▲/▼) buttons you can move upwards and downwards on the menus. On the menus, you can search channels using this button.
- 2 When you have reached the required subject menu, press the **OK** button to confirm your choice.
- 3 On the menus, you can select menu items using the **Arrow** (</>) buttons.
- 4 When you want to return to the previous menu with saving the change, press the **Back** (↔) button.
- 5 When you want to exit from the current menu, press the Menu (IIII) button.

Getting Started

To start your receiver for the first time, you must select the language for displaying menus and you should set parameters for system configuration and scan satellite channels. Perform the following setup procedure for scanning the satellite. Follow the instructions below to scan satellite channels. You can enjoy watching TV or listening to the Radio after the procedure completes.

Turn on your TV and receiver.
 Language Setting menu will appear automatically.
 OSD Language is highlighted.

Selecting the On Screen Display (OSD) Language

- 2 Select the OSD language of your choice using the Arrow (◄/►) buttons.
 You will see the selected language on the OSD menu.
- 3 Select Installation using the Arrow (◄/►) buttons.



Basic Operation

This section explains various functions while watching TV or listening to the Radio.

Switching Channel

You can switch the current channel by three different methods.

- Method 1: Press the Arrow (▲/▼) buttons or PR+/- buttons.
- Method 2: To select a channel directly, select a channel using the Numeric (0~9) button.
- Method 3:
- 1 To display the channel list, press the **OK** button.
- 2 Select a channel you want to watch using the **Arrow** (▲/▼) buttons and then press the **OK** button.
 - If there are multiple channels, use the **Page (+/-)** or the **Arrow (◄/►)** buttons to move to channels by page.
 - Press the Mode (☆/) button to switch between the TV and Radio channel.
- · Method 4: In case of more than two scanned satellites
- 1 Press the **SAT**(\varnothing) button to show satellite list.
- 2 Move the cursor to the satellite of a channel to watch with the **Arrow** (◄/►) buttons and then press **OK** button.
- 3 You can follow the method 3 instruction for channel selection.
- Method 5: How to move to the watched channel.
- 1 Press the last button with RCU.
- 2 Press **OK** button after a channel selection by using the Arrow (▲/▼) with RCU.
- 3 Press **OK** button to exit.

Volume Control

To control the volume:

- Press the VOL+/- or the Arrow (◄/►) buttons.
- Press the Mute (1) button to turn the sound off.
- Press the Mute (☆) button again or the VOL+/- or Arrow (◄/►) buttons to cancel muting.

Info Bar

Channel information always appears for a specific period of time whenever you switch channels.

General Information

Press the INFO (*i*) button; you can see general information of the current channel.

- Channel number and name
- 2 Current time
- 3 Signal Level
- 4 Signal Quality
- Icons: HD channel, Locked channel, Radio Channel, Scrambled channel, Subtitle, Teletext information
- 6 EPG information.

Conditional Access

Detailed Channel Information

You can see detailed channel information pressing the INFO (i) button again.

- [®] You can see detailed channel information pressing the INFO button again.
- Satellite, Frequency, Symbol Rate, FEC, Polarity, Video PED, Audio PID, PCR PID, Transponder
- Display the stream information.

Selecting the soundtrack

You can select the audio language, soundtrack, or sound mode.

- 1 Press the Audio (Yellow) button.
- 2 Press the Arrow (▲/▼) buttons to select the audio language or soundtrack and press the OK button.
- 3 Press the Arrow (◀/►) buttons to select the sound mode from Stereo, Mono left, or Mono Right.
- 4 Stream information.

the sound mode

Selecting the OSD teletext, VBI teletext, Subtitle and DVB subtitle

You can choose the **OSD teletext**, **VBI teletext**, **subtitle** and **DVB subtitle** for the current live TV program if provided from the broadcasting station.

- OSD teletext: Press the Text (
 button
- VBI teletext: Press the Text (=) button twice.
- Subtitle: Press the Text (=) button three times.
- DVB subtitle: Press the Text () button four times.



MoSAic

You can see multi picture by pressing the RED (MoSAic) button.

Sleep Timer Function

Press the **GREEN** (Sleep) button, you will see the time set for the sleep timer if already set from the Time Setting menu.

Zoom Function

You can make the picture appear larger on the screen pressing the **Zoom** (\oplus) button.

- 1 Press the Zoom () button.
- 2 Select the area you want to zoom using the Arrow buttons and then press the OK button. Picture is enlarged two times.
- Each time you press the Page (+/-) buttons, the picture is enlarged two or four times.
 Press the Arrow (▲/▼/◀/►) buttons to change the location at the lower right of display.
- 4 To cancel the Zoom function, press the Zoom (⊕) button twice or Back (→) button.



Channel List

You can see the TV or Radio channel list pressing the **OK** button while watching TV or listening to the Radio. Switch the channel list pressing the **Mode** (\exists / \exists) button. The icon (\in) behind the channel name symbolizes scrambled channel, and the (A) icon behind the channel name symbolizes indicates a locked channel.

Select channel using the Arrow ($\land/\forall/\checkmark/\rangle$), PR+/-, or Page (+/-) buttons and press the OK button to watch.

The colored buttons show the channel lists as follows:

- RED (MoSAic) button: by alphabetical order (alphabetical A-Z)
- **GREEN (Sleep)** button: by frequency (all/searched satellites)
- YELLOW (Audio) button: by names of broadcasting providers
- Blue (SAT) button: by HD channels



To view channel list in specific order (Alphabet/Satellite/Provider/HD)

- 1 Press the Colored (Red/ Green/Yellow/Blue) button. Channel list is highlighted.
- 2 Select Alphabet, Frequency, Provider, or HD using the Arrow (\blacktriangle/∇) buttons. The channel list is sorted automatically by your selection.
- 3 Select the channel pressing the Arrow (\blacktriangle/∇) or Page (\bigstar/\mathbf{x}) buttons and press the **OK** button to watch it.

Electronic Program Guide (EPG)

EPG displays program information such as program titles, broadcasting schedule, Program synopsis and such EPG service differ depending on the service provider.

- 1 Press the EPG (<) button while watching TV or listening to the Radio EPG information appears.
- 2 Select a program for further more information.
 - Arrow (▲/▼) buttons: Selects a program by channel
 - Arrow (◄/►) buttons: Selects a program by time & date within the same channel. It displays the program list at 30 minutes intervals.
 - You can see the detailed information by pressing Page (+/-) buttons with RCU.
 - 3 Press the **OK** button, detailed information on the selected event appears.
 - 4 To exit from the EPG mode, press the **Back** () button.



Menu Map



Chapter 5 >> Main Menu

Main Menu

The menu has been carefully designed from user-friendly point of view to assure easy operation to your receiver. The main menu is classified into 7 sub menus that will carry out the various operations individually.

Installation

In the **Installation** menu, you can customize antenna setting and do channel scanning. Press the **Menu (**III) button.

Select Installation using the Arrow (◄/►) buttons on the main menu.

Installation >> Auto Scanning

Auto Scanning

If you select the satellite to scan channel according to the antenna setting, your receiver can automatically scan the satellite without entering any other information.

- 1 Select Auto Scanning using the Arrow (▲/▼) buttons on the Installation menu and press the OK button.
- 2 Press the **OK** button, and then it starts scanning. After Auto Scanning completes, you can see TV and Radio channels in the list.

Installation >> Manual Scanning Manual Scanning

You can scan channels of the selected satellites by transponders if you know the transponder information.

- 1 Select **Manual Scanning** using the **Arrow** (▲/▼) buttons on the **Installation** menu and press the **OK** button.
- 2 Set the following options to complete Manual Scanning.
 - Transponder

Set the transponder for the selected satellite. Select a transponder using the **Arrow** (\triangleleft / \blacktriangleright) buttons.

Frequency/Symbol Rate

In put the desired value by pressing numeric (0~9) buttons.

Modulation

Select a modulation type using the **Arrow** (◄/►) buttons.

3 Press the **OK** button, then starts scanning. After Auto Scanning is complete, you can see TV and Radio channels found from Auto Scanning.





Installation >> Blind Scanning

Blind Scanning

When you don't have any transponder information, you can use this function to have all channels from selected cable.

1 Go for menu and select "blind scanning" using the Arrow (\blacktriangle/∇) buttons and press OK button.

2 Select an appropriate cable using the **Arrow** (\blacktriangle / \triangledown), then press **OK** button to start the blind scan procedure and the following screen will be displayed.

Please note that the scan procedure may take a few minutes.

3 Press the "menu" key or "exit" key to return to previous menu.

Installation >> Defaults Setting

Defaults Setting

You can restore the default setting in case you have encountered some problems after saving changes to channel data and others that may be in error.

- 1 Select **Defaults Setting** using the **Arrow** (▲/▼) buttons on the **Installation** menu and press the **OK** button.
- 2 Select a defaults option (Factory Defaults, or STB Reboot) using the Arrow (▲/▼) buttons and press the OK button.
 - Factory Defaults: Resets back to the factory-default settings. If you press the OK button in this menu, you will see a dialog box asking you to confirm the channel defaults or factory defaults setting. Select Yes or No, and press the OK button.
 - STB Reboot If you press the OK button in this menu, the Set-top box (STB) reboots.

System Setup

You can set the system configuration in this menu. Press the **Menu (∭)** button. Select **System Setup** using the **Arrow** (◄/►) buttons on the menu.

System Setup >> Language Setting Language Setting

You can set languages for OSD, Audio 1-2, Teletext, Subtitle, and EPG 1-2

- 1 Select Language Setting using the Arrow (▲/▼) buttons on the System Setup menu and press the OK button.
- 2 Select any of OSD, Audio1- 2, Teletext, Subtitle, and EPG1-2 languages using the Arrow (▲/▼) buttons and use the Arrow (◄/►) buttons to select its language.



System Setup >> OSD Setting OSD Setting

You can adjust OSD Transparency, Window Trans OSD Banner Time, and Screen Saver Time.

- 1 Select OSD Setting using the Arrow (▲/▼) buttons on the System Setup menu and press the OK button.
- 2 Select any of Transparency, Window Trans, Screen saver Time, VFD Module and Display in Standby Mode, and Screen saver Time using the Arrow (▲/▼) buttons and use the Arrow (◄/►) buttons to make changes.
 - **Transparency:** 0 (opaque) to 100%
 - Window Trans: 0 (opaque) to 100%
 - · Banner Time: 1 to 60 seconds or Always
 - Screen saver Time: 1 to 60 minutes or None
 - Serial Module: X-crypt or None



System Setup >> Media Setting Media Setting

You can enter the various media setting for TV System, TV Aspect Ratio, Video Aspect Ratio, RGB, Y/Pb/Pr or Composite, RF Channel, Broadcasting System, Video Freeze and DVB Subtitle.

- 1 Select **Media Setting** using the **Arrow** (▲/▼) buttons on the **System Setup** menu and press the **OK** button.
- 2 Select **Media Setting** using the **Arrow** (▲/▼) buttons and press the **Arrow** (◄/►) buttons to make changes.
 - TV System: 576p, 720p, 1080i
 - TV Aspect Ratio: You can set the aspect ratio of your TV. (4:3,16:9 or Auto)
 - Video Aspect Ratio: You can select the display format according to TV screen ratio. (Letter Box, Pan & Scan, Mixed, or Full)
 - Video Signal Type: RGB, Y/Pb/Pr, Composite
 - Video Freeze: On/Off
 - · Dolby digital: PCM/Bitstream
 - Time Shift: Manual / Auto



System Setup >> Time Setting

Time Setting

You can set the time zone.

1 Select **Time Setting** using the **Arrow** (▲/▼) buttons on the **System Setup** menu and press the **OK** button.

Set Time Zone:

Press the **Arrow** (◀/►) buttons to set time mode for Auto or Manual

♦ Time Zone

Press the **Arrow** (◄/►) buttons to set the time zone. The local time will be automatically changed by this setting. Set the time by using the **Arrow** (◄/►) buttons in case of **Auto set time mode**

Input the figures with the numeric keys in case of Manual set time mode

♦ Summer Time: Select the summer time function on or off

System Setup >> Reservation Setting

Reservation Setting

You can set timer of reservation for TV program such as switch on, off and TV program. Select the Event NO. for the reservation.

- **ON time:** Input the Switch-ON time with numeric keys.
- **OFF time:** Input the Switch-OFF time with numeric keys.
- Repetition: Select the Event activation time option (Once, Daily, one day a week) with the Arrow (◄/►) buttons.
- **Program:** Select the channel with Arrow (◄/►) button and press OK to save.

System Setup >> System information

System Information

You can check system information like Model Name, hardware version, Loader version, Main Software version, and Main Software Build Date.





Channel Setup

You can edit TV and Radio channels and the favorite channel group in this menu. Press the **Menu (**(**□**) button. Select **Channel Setup** using the **Arrow** (◄/►) buttons on the main menu.

Channel Setup >> Delete Channels

Delete Channels

You can delete TV and Radio channels you want.

- 1 Select **Delete Channel** using the **Arrow** (▲/▼) buttons on the **Channel Setup** menu and press the **OK** button.
- 2 Select the channel you want to delete using the Arrow (▲/▼) buttons and press the OK button.
 Press the Arrow (◄/►) buttons to switch between TV and Radio List.
 You can select multiple channels.
 Bulleted list indicates selected channels.
 Press the Green (sleep) button for Delete mode by Channel, TP or Satellite.
- 3 Press the **RED (MoSAiC)** button to delete selected channels.

Channel Setup >> Delete All Channels Delete All Channels

You can delete all channels.

- 1 Select **Delete All Channels** using the **Arrow** (▲/▼) buttons on the **Channel Setup** menu and press the **OK** button. System message dialog box appears asking you to confirm it.
- 2 Select **Yes** using the **Arrow** (◄/►) buttons and press the **OK** button to delete all channels.





Channel Setup >> Favorite Channels

Favorite Channels

You can edit favorite channels. There are 9 favorite channel groups (News, Sports, Movie, Music, Shopping, Kids, Adults, Drama, and Education).

- Select Favorite Channels using the Arrow (▲/▼) buttons on the Channel setup menu and press the OK button.
- 2 Select channels that you want to edit using the Arrow (▲/▼) or Page (+/-) buttons in the TV/Radio List and press the RED (MoSAic) button. Selected channels are listed in the favorite group. Pressing the TV/Radio (☆/♬) button switches between TV and Radio List.
- 3 Press the FAV (*) button to select another favorite group.
- 4 Select channels that you want to edit using the Arrow (▲/▼) buttons in the TV/Radio List and press the RED (MoSAic) button. Repeat steps from 3 to 4.
- 5 Press the **OK** button to confirm.

Channel Setup >>Edit Channels

Edit Channels

You can rename the channel list.

Select Edit Channels using the Arrow (\blacktriangle/∇) buttons on the Channel Setup menu and press the OK button.

- FAV (♥) button: Shows Favorite channel lists
- Arrow (◄/►) buttons: Switches between TV and Radio channel lists

To rename the channel list

- Select the channel you want to rename using the Arrow
 (▲/▼), PR+/-, or Page (+/-) buttons and press the
 GREEN (Sleep) button. Font Table will appear.
- 2 Press the **BLUE (SAT)** button to delete the selected channel name.
- 3 Select characters using the **Arrow** buttons and press the **RED** (MoSAic) button to enter characters.
 - YELLOW (Audio) button: Enters space
 - BLUE (SAT) button: Hits the back space
 - RED (MoSAic) button: Selects the input
- 4 Press the **OK** button to confirm.





Channel Setup >> SW Manager

SW Manager

You can download the software of your receiver through satellite when the new software is available for your system. During download, don't turn off your receiver. In case of the power is turned off, turned on your receiver again to complete the download.

- 1 Select **Software manager** using the **Arrow** (▲/▼) buttons on the **Installation** menu and press the **OK** button.
 - **Program Upload:** Copies all the data from Master STB to Slave STB.
 - Channel Data Upload: Copies only the channel data from master STB to Slave STB.
 Connects both Master and Slave STB using RS232C
 Cable and then press the OK button on the Software Upload menu for the Master STB.



• USB Explore (Optional): Select a Software file by using the Arrow (▲/▼) or Page (+/-) buttons and press RED (MoSAic) button for software downloading.

Parental Lock

You can lock the channels to prohibit unauthorized users from watching specific channels. Press the **Menu (∭)** button. Select **Parental Lock** using the **Arrow (◄**/**►)** buttons on the main munu

Parental Lock >> Channel Lock

Channel Lock

Whenever you want to see the locked channel you will be prompted to enter the PIN Code in the dialog box.

- 1 Select **Channel Lock** using the **Arrow** (▲/▼) buttons on the Parental Lock menu and press the **OK** button.
- 2 Select the channel that you want to use the Arrow (▲/▼), PR+/-, Page (+/-), or Numeric (0~9) buttons and press the OK button.

Selected channel will be displayed with locking-marked. Press it again to clear.

Arrow (◀/►) buttons: Switches between TV and Radio List.

- 3 Press the RED (MoSAiC) button to confirm.
- 4 Press the Blue (SAT) button to move PIG screen.



Parental Lock >> Lock Control Lock Control

Whenever you want to use the locked system you will be prompted to enter the PIN Code in the request dialog box. Using **Arrow** (\blacktriangle / \blacktriangledown) buttons and press **OK** button to select a lock status.

- System Lock: Select Lock or Unlock by using the Arrow (◄/►) button. If Lock is selected, the front key function will be blocked.
- Menu Lock: Select Lock or Unlock by using the Arrow (
 button submenu Lock control will be available with PIN code.
- Lock mode: Select Once or Every time mode by using Arrow (◄/►) button.
- **Once:** Input the pin code once on the channel change with Parental Lock.
- Every time: Input the pin code every time on the channel change with Parental Lock Save the changes with OK button Press the Blue (SAT) button to move PIG screen

Parental Lock >> Change PIN Code Change PIN Code

You can create a new PIN code in this menu. "**0000**" is the default password.

- Select Change PIN Code using the Arrow (▲/▼) buttons on the Parental Lock, System Lock, Menu Lock and press the OK button.
- 2 Enter the old PIN code.
- 3 Enter the new PIN code.
- 4 Enter the new PIN code again to confirm.





Note

• Please keep in mind that the PIN code must be a four-digit number. In case you forgot your PIN code, contact your local dealer.

Game

This product provides lots of games for your entertaining environment. Select Game using the **Arrow** $(\triangleleft/\triangleright)$ buttons on the main menu.

- 1 Select a game using the Arrow (▲/▼) buttons on the Game menu and press the OK button.
- 2 According to the instruction displayed on screen, you can enjoy games using the **Arrow**, **Numeric (0~9)**, and **OK** buttons.

Multimedia

You can access to the multimedia function with USB, SATA and Ethernet device.

- Please switch off the system before connecting USB and SATA cable to STB.
 - Otherwise, this can be causing the system to malfunction!!

Multimedia >> USB

Connect USB stick or External HDD through USB connector.



Multimedia >> SATA (optional)

Connect the external HDD through SATA connector in the rear panel.

 HDD must be compatible with FAT 32 file system. If HDD is not compatible with FAT 32 File system, you need to change the file system by using personal computer with the format function.

1 Playing the media files Select the media file with channel up/down buttons and press OK button.

2 Software Update

Select S/W files with channel up/down buttons and press Red key (Mosaic).

3 Deleting files

Select the files with channel up/down buttons and press Green key (Sleep).

4 Format

Press yellow key (Audio) to delete all the files in the storage device.

PVR function

In order to use PVR function, the storage device must be connected through SATA or USB connector.

- 1) Record: Press Rec button during watching channel
- 2) Stop: Press Stop button to finish recording channel
- 3) Play: Press Play button to play the recorded programs
- 4) Fast Forward: Press FFR button to play in Fast Forward mode to x16
- 5) Rewind: Press REW button to play in Rewind mode to x8
- 6) Pause: Press Pause button to stop the program for a while





- 7) Media player: press F2 to start the media player.
- 8) Time shift: Press F3 to start time shift function
- 9) File list: press text button to see the file list in the media player menu

Multimedia >> Ethernet

• Before starting setup, please check if the Ethernet cable is connected to your receiver well.

1) TCP IP set up

Input the right information for the settings to the followings.

TCPIP Type/ IP Address/ Net mask / Gateway/ DNS Type/ DNS Server

 FTP Explorer Press O.K. to connect the FTP Server Select file and press Red Key (Mosaic) for S/W update.

Conditional Access

You can enjoy not only scrambled services using the Conditional Access Modules (CAM), but also free-to air services, Types of common interface module and smart card differ depending on the service provider. If you want to use conditional access modules, contact your service provider or distributor.

• Without using the Conditional Access (CA) Modules, free-to-air services are available.



TCPIP Setu

Switch

More



Troubleshooting

Problem	Solution
No display LED on the front panel. No power supply	Plug the power cord correctly.
No picture.	Ensure that the STB is switched on. Check the connection status. Check channels and Video output status.
Poor picture quality.	Check the signal level If this is too low, try adjusting the alignment of your dish.
No sound.	Check the volume level of the TV and STB Check the mute status of the TV and STB Check the connection of audio cable.
Remote Control does not operate.	Point remote control directly towards your receiver. Check and replace batteries. Check if anything blocks the front panel.
Service is not running or scrambled.	Make sure the smart card is appropriate for the selected service.
You have forgotten your PIN code.	See chapter 5, "Parental Lock" in this User's manual.

Specifications

TUNER & CHANNE		
Input Frequency	47~870 MHz	
Input connector	IEC Female (RF IN), IEC Male (RF OUT)	
IF Frequency	36.125 MHz	
FEC Mode rate	1/2,2/3,3/4,5/6,7/8	
Demodulation	QAM	
Constellation	16, 32, 64, 128 and 256 QAM	
QAM System Clock	28.92Mhz	
Switching Mode Power	r Supply	
Input Voltage	AC90-250V~,50/60Hz	
Power Consumption	MAX.50W (Standby: Less than 3W)	
MPEG TS A/V Decodin	g	
Transport Stream	MPEG-2 ISO/IEC 1318-1	
Drefile Level	MPEG-2 MP@ML	
Profile Level	MPEG-2 MP@HL, MPEG-4 AVC/H.264 HP@L4	
Aspect Ratio	4:3, 16:9, Letter Box	
Video Resolution	1080i, 720p, 576p, 576i	
Audio Decoding MPEG-1, Musicam Layers 1 & 2		
Audio Mode Single channel/Dual channel/Joint Stereo/Stereo		
Sampling Rate	32,44,1& 48KHz	
System Resources		
Main Processor	ST40 CPU core: 266MHz(STi7101)	
Flash Memory	8 Mbyte (Optional Expand)	
Video DDR SDRAM	64 Mbyte (Optional Expand)	
System DDR SDRAM	64 Mbyte (Optional Expand)	
EEPROM	8Kbyte	
A/V & Interfaces		
Digital output(HD)	HDMI(TMDS main video output)	
	YPbPr	
TV-Scart & RCA(SD)	Video : CVBS / RGB output	
	Audio : L/R output	
VCR-Scart(SD)	Video : CVBS output / CVBS input bypass	
Digital Audio output	Digital AC-3 Decoding output	
S-Video	Video : S-Video output	
BS-232C	Transfer rate 115 2Kbps 9 pin D-sub type	
110 2020	USB2 0 High speed, host controller	
PVR Ready(Optional)	Serial ATA hard-disk drive support	
Network (Optional)	Fast Ethernet (10/100)	

Specifications

Specifications

Conditional Access System		
PCMCIA (Optional)	2 Slot of DVB-CI	
Smart Card(Optional)	2 Smart card Reader for Embedded CAS like	
Front panel		
Display	Dot-Matrix VFD (Vacuum Fluorescent Display)	
Keys	Touch pad 7Keys	
Accessories		
RCU	IR(Freq. : 38Khz), Battery : 2x1.5V AAA	
HDMI Cable	1.5M	
Manual		
Physical Specification		
Size (W x H x D)	375 x 60 X 230mm	
Net Weight	3.5Kg	
Operation Temperature	0~50 C	
Storage Temperature	-10~+60 C	



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, Please separate this from other types of wastes and recycled it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of

where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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